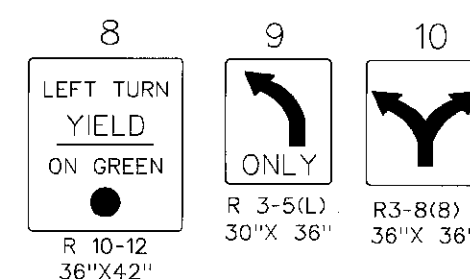
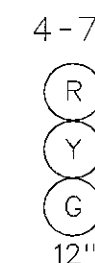




### EXISTING SIGNS

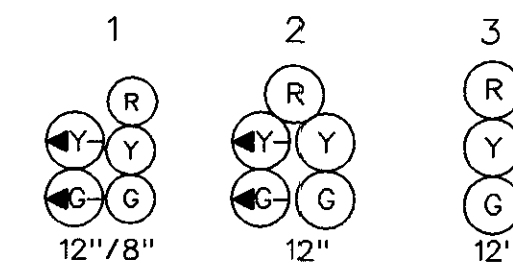


EXISTING SIGNALS



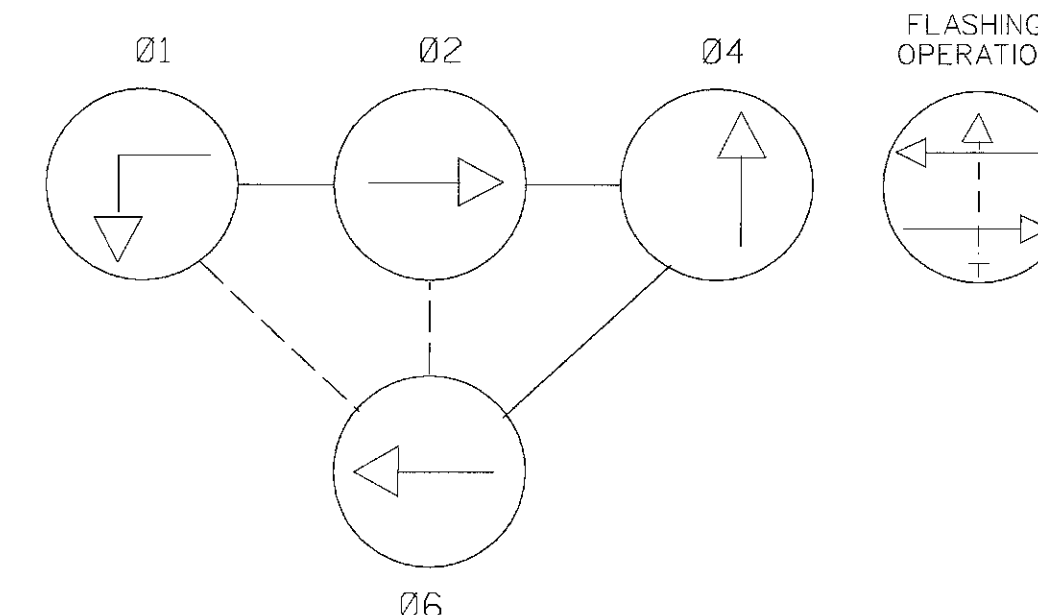
←○— OPTICOM DETECTOR EYE

## PROPOSED SIGNALS



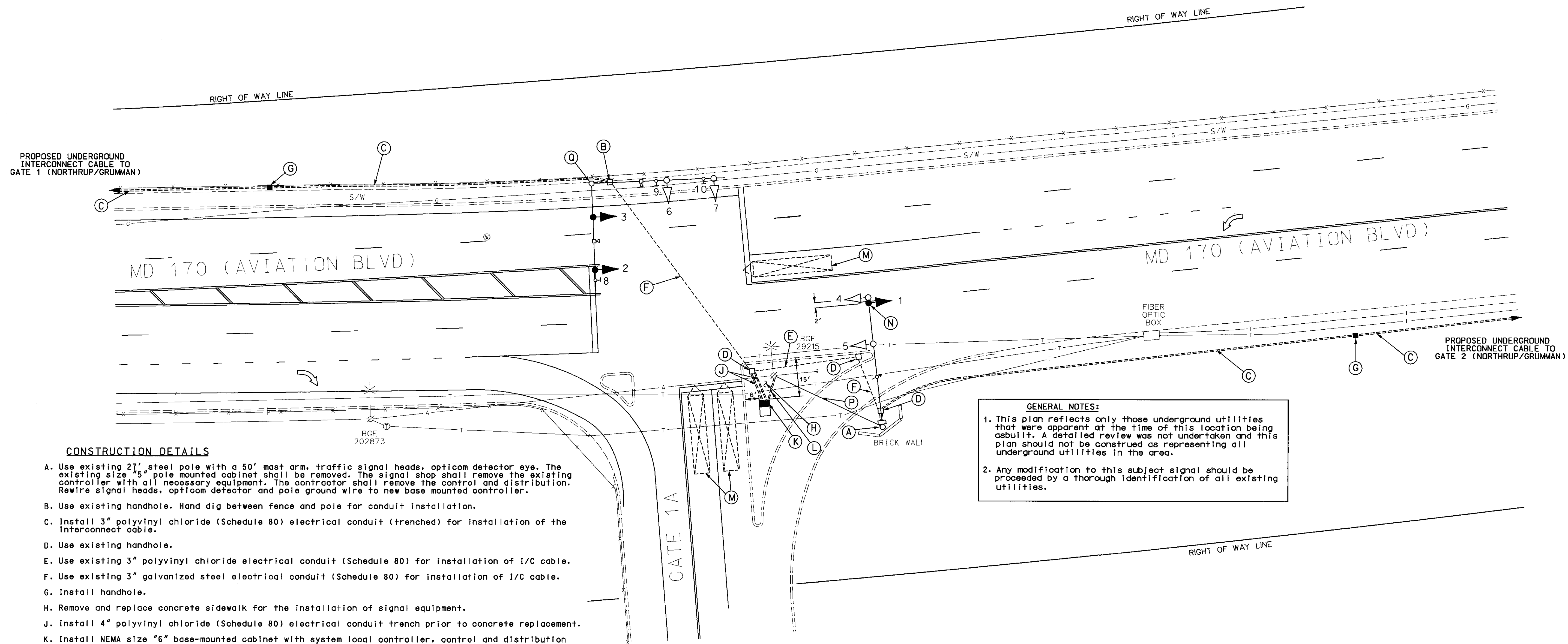
(SIGNALS TO BE BLACK FACED)

## NEMA PHASING



PHASING NOTES:

- 1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY  
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



## CONSTRUCTION DETAILS

- A. Use existing 27" steel pole with a 50' mast arm, traffic signal heads, opticom detector eye. The existing size "5" pole mounted cabinet shall be removed. The signal shop shall remove the existing controller with all necessary equipment. The contractor shall remove the control and distribution. Rewire signal heads, opticom detector and pole ground wire to new base mounted controller.
- B. Use existing handhole. Hand dig between fence and pole for conduit installation.
- C. Install 3" polyvinyl chloride (Schedule 80) electrical conduit (trenched) for installation of the interconnect cable.
- D. Use existing handhole.
- E. Use existing 3" polyvinyl chloride electrical conduit (Schedule 80) for installation of I/C cable.
- F. Use existing 3" galvanized steel electrical conduit (Schedule 80) for installation of I/C cable.
- G. Install handhole.
- H. Remove and replace concrete sidewalk for the installation of signal equipment.
- J. Install 4" polyvinyl chloride (Schedule 80) electrical conduit trench prior to concrete replacement.
- K. Install NEMA size "6" base-mounted cabinet with system local controller, control and distribution and all necessary equipment on the concrete island. The Signal Shop shall relocate the opticom cabinet equipment.
- L. Install 4" polyvinyl chloride (Schedule 80) electrical conduit (trenched) with a stub at the base of utility pole # BGE 29215 for electrical service.
- M. Video detection area.
- N. Install proposed 5 section signal head onto existing mast arm as shown.
- O. Use existing handhole; Splice 2-conductor Aluminum Shielded to existing loop wire.
- P. Existing electrical service to be removed by BGE.
- Q. Replace existing northbound signal heads with black faced signal heads in same location. Reroute camera cable and rewire signal heads.

**GENERAL NOTES:**

- GENERAL NOTES:
1. This plan reflects only those underground utilities which were at the time of this location being asbuilt. A detailed review was not undertaken and this plan should not be construed as representing all underground utilities in the area.
  2. Any modification to this subject signal should be preceded by a thorough identification of all existing utilities.

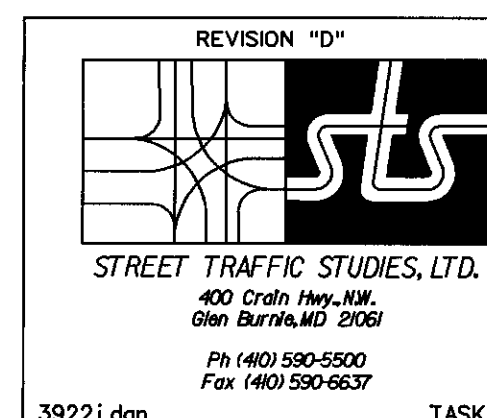
**GEOMETRIC LEGEND**  
**PROPOSED** \_\_\_\_\_  
**EXISTING** \_\_\_\_\_

**LEGEND OF UNDERGROUND  
AND OVERHEAD UTILITIES**

|              |        |      |
|--------------|--------|------|
| AERIAL CABLE | — A —  | A —  |
| ELECTRIC     | — E —  | E —  |
| TELEPHONE    | — T —  | T —  |
| GAS          | — G —  | G —  |
| SEWER        | — S —  | S —  |
| WATER        | — W —  | W —  |
| CABLE TV     | — TV — | TV — |


### LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE — A — A —  
ELECTRIC — E — E —  
TELEPHONE — T — T —  
GAS — G — G —  
SEWER — S — S —  
WATER — W — W —  
CABLE TV — TV — TV —



| REVISONS   |  |  |  |  |  |  |  |  |  | APPROVALS  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  | <div style="text-align: center; font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">ORIGINAL FILE</div>  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ① 5/10/02 ASBUILT. REPLACE CABINET. ADD INTERCONNECT CABLE SHA No. XX1085185<br>EMM <i>EMM</i> <i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i><br>C 8/88<br>TOTAL RE-CONSTRUCTION<br>BW-641-801-521 |  |  |  |  |  |  |  |  |  | TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION<br><br>ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION<br><br>CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION<br><br>DIRECTOR, TRAFFIC & SAFETY |  |  |  |  |  |  |  |  |  |



 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
*Office of Traffic & Safety*  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 170 (AVIATION BLVD) & GATE 1A  
OF NORTHROP GRUMMAN

|                 |                      |              |           |
|-----------------|----------------------|--------------|-----------|
| DRAWN BY: DCD   | F.A.P. NO.           | TS NO.       | SHEET NO. |
|                 |                      |              |           |
| CHECKED BY: DCD | S.H.A. NO.           | 1028D        |           |
| SCALE: 1" = 20" | COUNTY: ANNE ARUNDEL | T.I.M.S. NO. |           |
| DATE: 8/88      | LOC. MILE:           | F. 451       | 9 OF 23   |